

KUUM, E. Kh.

The effectiveness of hay-drying methods currently in use. p.548

SOTSIALISTILISE PÖLLEMÄJANDUS. Tallinn, Estonia. Vol. 14, no. 12, June 1959

Monthly List of East European Accessions (EEAI), I.C. Vol. 8, No. 9, September 1959  
Uncl.

KUUM, J.

Experience in building covered drainage lines in the Estonian  
S.S.R. by means of a ditch digger. Gidr. 1 mel. 6 no.12:54-55  
D '54. (MIRA 8:1)  
(Estonia--Drainage)

USSR / Meadow Cultivation.

L

A. M. J.  
Abs Jour: Ref Zhur-Biol., No 7, 1958, 29606.

Author : Eysen, I., Kuum, J.

Inst : Not given.

Title : Several Moments from the History of the Culti-  
vated Grasslands of Estonia.  
(Nekotoryye momenty iz istorii kul'turnykh  
lugov Estonii).

Orig Pub: Sots. pollumahandus, 1957, № 8, 366-369.

Abstract: No abstract.

Card 1/1

74

KUUM, J.

"Drains must be planned deeper."

p. 560 (Sotsialistlik Pöllumajandus) Vol. 12, no. 12, Dec. 1957  
Tallinn, Estonia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

KUUM, J.

Regular seed mixtures can be used in establishing cultivated meadows on swampland.  
p. 106.

SOTSILKLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM.  
Tallin, Hungary. No. 3, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11  
November 1959.

Uncl.

KUUM, J.

Application of the coefficient of the relative value of combinations of forage plants. p. 268.

SOTSSIALISTLIK POLLUMAJANDUS. (Pollandmajanduse Ministeerium)  
Tallinn, Estonia. Vol. 13, no. 6, June 1958.

Monthly list of East European Accessions (EEAI) Vol. 9, no. 1, Jan. 1960.

Uncl.

KUUM, J.

A book on the history of land improvement; p. 535

SOTSIALISTLIK PÖLLUMAJANDUS. Tallinn, Estonia. Vol. 14, no. 11, June 1959

Monthly List of East European Accessions (EEAI), I.C. Vol. 8, No. 9, September 1959  
Uncl.

KERZHNEVICH, I.I.; RODINSKIY, A.A.; RADIMOV, N.K.; KERZHNEVICH, L.N.;  
AFASHAGOV, Y.U.G.; KUUR, V.P.

Pilot plant tests in precipitation reduction smelting of antimony  
concentrates in electric furnaces. Tsvet. met. 38 no.5:34-41 My '65.  
(MITA 18:6)

KHALDNA, Yu.L. [Haldna, U.]; KUURA, Kh.I. [Kuura, H.]; LAANESTE, Kh.E. [Leaneste, H.]; PYUSS, R.K. [Puus, R.]

State of small additions of nitromethane in aqueous solutions  
of sulfuric and hydrochloric acids. Zhur. fiz. khim. 38  
no.4:863-870 Ap '64.  
(MIRA 17:6)

1. Tartuskiy gosudarstvennyy universitet.

KHALDNA, Yu.L. [Kaldna, J.]; KUURA, Kh.I. [Kuura, H.]

Synthesis and study of the basicity of 6-chloro-2-nitroaniline.  
Zhur. ob. khim. 34 no.11:3694-3696 N '64 (MIRA 18:1)

1. Tartuskiy gosudarstvennyy universitet.

RASKIN, Z.Ya., inzh.; KUURPERK, K.O., inzh.

New design of a blowoff device for convective heating surfaces.  
Energomashinostroenie 4 no.11:39-40 N '58. (MIRA 11:11)  
(Boilers--Equipment and supplies)

KUUS,E. (Estonskaya SSR, pos. Rapla, ul. Iyye, d.2, kv.6)

Result of the use of tannin in the roentgenological examination of the gastric mucosa. Vest. rent. i rad. 38 no.1:  
32-34 Ja-F'63. (MIRA 16:10)

1. Iz Raplaskoy rayonnoy bol'nitsy (glavnnyy vrach S.Ellervez)  
Estonskoy SSR.

\*

52200  
5.5230

S/153/60/003/02/04/034  
B011/B003

AUTHOR: Kuus, Kh. Ya.

TITLE: Investigation of the Conditions of Co-precipitation of Germanium With Ferric Hydroxide

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 2, pp. 235-238

TEXT: In the article under consideration the author confirmed the possibility of a quantitative co-precipitation of microgram amounts of germanium from diluted solutions by means of ferric hydroxide. Until now, this process sometimes applied in analytical practice has been insufficiently dealt with in publications. In addition to stable germanium the solutions used contained a certain amount of Ge<sup>71</sup>. Fe<sup>III</sup> was introduced as ammonium ferric alum. Ferric hydroxide was precipitated with diluted ammonia on heating the solution to 60-70°. The activity of the filtered-off precipitate was compared with the activity of the control solution, to which the same volume of distilled water was added

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Investigation of the Conditions of  
Co-precipitation of Germanium With  
Ferric Hydroxide

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B011/B003

instead of ammonia. An apparatus of type B with an MST-17- end-window counter was used for measuring the radiation. The radiochemical purity of the preparation used was controlled on the basis of its half-life. In opposition to assertions made (Ref. 1) the author found that an excess of  $\text{NH}_4\text{OH}$  in the concentration range used (Table 1) does not reduce the percentage of the co-precipitation of germanium. The amount of iron used must be kept within certain limits. Iron was used by the author in an excess of 5, 10, 15, 20, and 25 times the germanium. The Ge-concentration is constantly equal to 200 $\mu$  per 100 ml. The 2.61%  $\text{NH}_4\text{OH}$ -solution was added in a fivefold excess. Results are listed in Table 2. They show that a ratio Fe : Ge > 25 is sufficient for the quantitative extraction of germanium from the solution. It may be seen from Table 1 that already a slight deficiency of  $\text{NH}_4\text{OH}$  in iron precipitation will be enough to cause considerable losses in germanium. The quantitative dependence of Ge-co-precipitation on the completeness of iron precipitation is indicated in Table 3. Hence it follows that the amount of precipitated iron exceeded the Ge-amount by more than

Card 2/3

Investigation of the Conditions of  
Co-precipitation of Germanium With  
Ferric Hydroxide

S/153/60/003/02/04/034  
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25-fold in all cases, but the Ge-precipitation occurred mainly toward the end of the precipitation of the whole introduced iron (100 mg). The Ge-concentration was 400 $\gamma$  per 100 ml. It proceeds from Table 4 that a newly prepared precipitate of ferric hydroxide carries down the whole germanium present in the solution. The course of the co-precipitation, however, deviates here. The co-precipitation of germanium takes place even more distinctly toward the end of the iron precipitation. The author concludes from the comparison of Tables 1 and 3 that a small excess of NH<sub>4</sub>OH rather favors the completeness of Ge co-precipitation. The author thanks A. V. Moskvin, Docent and T. M. Soovik, Assistant for suggestions and assistance given. The article under review was read at the Mezhvuzovskaya konferentsiya po radiokhimii (Interuniversity Conference of Radiochemistry) in Moscow, April 20 - 25, 1959. There are 1 figure, 4 tables, and 2 references, 1 of which is Soviet.

ASSOCIATION: Tartuskiy gosudarstvennyy universitet; Kafedra  
analiticheskoy khimii (Tartu State University; Chair of  
Analytical Chemistry)

SUBMITTED: June 3, 1960  
Card 3/3

W

KUUS, V. (Tallinn).

Estonian radio amateurs prepare for the 12th radio exhibition.  
Radio no.2:19 F '54. (MLRA 7:2)  
(Estonia--Radio exhibitions) (Radio exhibitions--Estonia)

USSR/Miscellaneous - Radio clubs

Card 1/1      Pub. 89 - 10/27

Authors : Kuus, V.; Yudashkin, I.; and Gurevich, L.

Title : Along the DOSAAF radio clubs

Periodical : Radio 2, 19-20, Feb 1954

Abstract : Three articles dealing with the DOSAAF radio clubs are presented. The first article gives a brief report of the 12th Estonian radio-amateurs' exhibition. The second article extols the club's need for a radio specialist who would be able to help the radio amateurs in case of technical difficulties. The third article gives some suggestions for a satisfactory solution of the problem of continuously supplying power for Kolkhoz radio centers.

Institution: .....

Submitted: .....

KUUS, V.

Racing cars "Estonia" are manufactured here. Za rul. 20  
no. 1:10 Ja '62. (MIRA 15:2)  
(Tallinn--Automobile industry)

ACC NR: AP6021484

(A)

SOURCE CODE: UR/0413/66/000/011/0113/0113

INVENTOR: Kuusik, R. A.

ORG: None

TITLE: A highly sensitive flexible coupling. Class 47, No. 182445

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 113

TOPIC TAGS: mechanical power transmission device, torque, shaft

ABSTRACT: This Author's Certificate introduces a highly sensitive flexible coupling for bilateral compensation of rotational variation. The unit contains a drive spindle and helical springs under compression. better compensation for the torque transmitted by the coupling is achieved by locating the drive spindle inside the driven shaft and connecting the two by means of a nut which is spring-loaded on both sides. This nut is connected to the spindle by non-locking threads while it is joined to the driven shaft by a splined coupling. The splined coupling permits this nut to move in the axial direction during angular acceleration of the spindle.

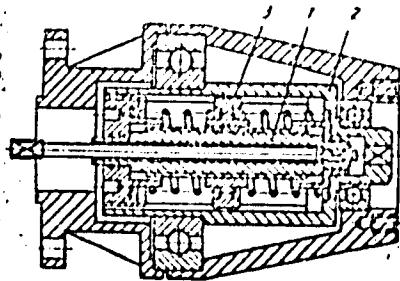
Card 1/2

UDC: 621.825.7

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

ACC NR: AP6021484



1--drive spindle; 2--driven  
shaft; 3--nut

SUB CODE: 13/ SUBM DATE: 27Feb64

Card 2/2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

L 63291-65

FMT(d)/

Pgm/Pht/ TJP(c)

ACCESSION NR: AP5C 14765

UR/0208/65/005/003/0571/0574

51:681.14

AUTHOR: Kuusik, V. (Tallin)

TITLE: On one algorithmic language

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 3, 1965, 571-574

TOPIC TAGS: algorithmic language, algol language, cybernetics, computer research, compiler language

ABSTRACT: A description of a simplified version of an algorithmic language similar to ALGOL is given. The language is written for programmers who are acquainted with machine code, and also for people who have no computer code experience. The primary aim of the work was to create a very simple language structure. The simplified version consists of 19 metalinguistic formulae, as compared with more than 100 of the same in the ALGOL language. The alphanumerical information used is fed into a computer as information coded according to the second international telegraph code. The syntax and semantic definitions of identifiers and numbers and of variables are given first. Included in the syntax definitions are recursion formulae for identifiers, letters, digits, numbers, and integers. For example, an identifier is

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ACCESSION NR: AP5014765

defined recursively as "a letter, or an identifier followed by a letter, or an identifier followed by a digit" and a number is "an integer or an integer followed by an integer," an integer is defined as "a digit, or an integer followed by a digit," etc. The syntax and semantics are expanded from the definitions of a variable to account for expressions involving arithmetic operands and unary operations such as summation, product, sine, cosine, arcsine, natural logarithm, absolute value, etc. Further definitions account for instructions governing program logic flow ("if" statements, "go to" commands, "do" loops, etc.). The definitions are completed with the syntax for program, a list of descriptors, and a list of operators. Two example programs coded in the described language are given. The second example, a program for finding the roots of the polynomial  $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1$ , with complex coefficients by Newton's method, is given in Fig. 1 on the Enclosure.

ASSOCIATION: Institut kibernetiki AN ESSR (Cybernetics Institute, AN ESSR)

SUBMITTED: 29Oct64

ENCL: 01

SUB CODE: DP

NO REF Sov: 001

OTHER: 003

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L63321-85

ACCESSION NR: AP5014765

ENCLOSURE: 01

```
'array complex a, 'complex z, delta, 'real n, eps.  
'input (n, eps, a(0 : n)).  
begin'res:=1, 'im z:=1,  
repeat:delta:=Σ(a(0 : n) × z × X(n : 0) / Σ((n : 1) × a(0 / n - 1) × z × X(n - 1 : 0)),  
    'if 'mod delta (eps)'go to solution, z:=z - delta, 'go to repeat,  
solution: 'output (z),  
    z(1 : n):=a(0 : n - 1) × z + a(1 : n), n:=n - 1, 'if 2 > n 'go to begin, 'output  
    (-a(1) : a(0))
```

KC  
Card 3/3

IRINSK, V.

Programming language for processing economic information.  
Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 14, no. 4;  
549-551 '65 (MIRE 1982)

1. Institut kibernetiki AN Estoniiskoy SSR. Submitted May 14,  
1965.

KUUSEKÄND R.

124-11-13438

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 159 (USSR)

AUTHORS: Kuusekänd, R., Leibur, M., Laul, H.

TITLE: Prestressed Compound Reinforced-Concrete Beams.  
(Predvaritel'no napryazhennyye sostavnyye zhelez obetonnyye balkf  
Eelpingestatud raudbetoonelementidega armeeritud talad.)

PERIODICAL: Tallinna Polüthn. Inst. toimetised. (Tr. Tallinsk. politekhn. in-ta),  
1955, A, Nr 67, pp 4-10. Estonian with Russian résumé.

ABSTRACT: Bibliographic entry.

Card 1/1

KUUSIK, I.KH.  
USSR/Physics - Electrodynamics

FD-805

Card 1/1 Pub. 146-18/21

Author : Kuusik, I. Kh.

Title : Remark on electrodynamics with higher derivatives

Periodical : Zhur. ekspl. i teor. fiz., 27, 260-261, Aug 1954

Abstract : Letter to the editor. Finds an error in the article by B. Podolsky and P. Schwed (Rev. Mod. Phys., 20 40 (1948)) and attempts correction.

Institution : Institute of Physics and Astronomy, Acad Sci Estonian SSR

Submitted : July 6, 1953

KUUSIK, I. Kh.

Problem of the self-action of an electron in Bop-Podolsky's electrodynamic ..

P. 11c, (Uurimused Trudy) No. 5, 1957, Tallinn, Estonia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

S/613/61/000/017/002/011  
DO51/D113

AUTHOR: Kuusik, I.Kh.

TITLE: Calculation of the electron vibrational band spectrum for an anharmonic oscillator with the electron matrix element depending on the nuclear coordinate

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy, no. 17, 1961. Izledovaniya po lyuminestsentsii, 29-37

TEXT: Following M.Lax (Journ.Chem.Phys., 20, 1752, 1952) and O.I.Sild (Trudy IFA AN ESSR, № 15, 21, 1961), the expressions for the moments of the probability distribution for a one-dimensional approximation. The effect of anharmonic vibrations and the linear dependence of the electron matrix element on the nuclear vibrations were determined simultaneously considered. The adiabatic potential  $u(x) = dx^3 + ax^2$  of the study was limited to one vibration coordinate. The initial electronic state was adopted in the form  $M(x) = M_0 + M_1 x$ , where  $M_0$  and  $M_1$  are constants. The moments of the spec-

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S/613/61/000/017/002/011  
DO51/D113

Calculation of the electron ...

tral curve of the order 1 were determined by

$$S_1 = \text{Sp} [\hat{S}_1 \hat{\rho}], \quad (2)$$

where  $S_1$  - the operator of a moment of the order 1,  $\hat{\rho}$  - the density matrix. The general expression for the moment  $S_1$  was found to be

$$S_1 = \sum_{k=0}^{1+3} \sum_{t=-6}^6 \beta^{(1)}_k t_e t_f^{(k)}(\theta) / f(\theta), \quad (3)$$

the constants  $\beta^{(1)}_k$  containing zero, first, and second corrections according to  $M_1$ ,  $D$ , and  $d$  in the general case. The first and second moments were calculated by computing the coefficients  $\beta^{(1)}$  and  $\beta^{(2)}$  of special expressions derived from the general one (9). An analysis of the results obtained is to be given in a future paper. Neglecting corrections of the second order and considering  $M_1 = 0$ , the results will coincide with those ob-

Calculation of the electron ...

3/613/61/000/017/002/011  
D051/D113

tained by Sild. K.K. Robane is thanked for help rendered.

SUBMITTED: April 24, 1961

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KUTIK, H.

AGRICULTURE

Periodical: "SPECIALISTIK ROLL" JOURNAL Vol. 1., No. 1, Jan. 1959

KUTIK, H. Broadening the food supply in the basis for the development of animal husbandry. p. 5.

Monthly List of East European Acquisitions (EMI) LC, Vol. 2, No. 5, May, 1959, Unclass.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

KUUSK, R.

Radio engineering slide rule. Radio no. 2:32 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

KUUSK, V., red.; LAASIFER, L., red.; TRAKS, Kh. [Traks, H.], red.;  
SEVAST'YANOV, A., red.

[Study of the vegetation of Saaremaa Island] Iuuchenie  
rastitel'nosti ostrova Saaremaa. Tartu, 194... 285 p.  
.....  
(MIPR 18:5)

I. Eesti NSV Teaduste Akadeesia. Zooloogia ja Botanika  
Instituut.

Kirjastus

ARUHÜLA, Peino, kand. tekhn. nauk; KASESALU, Helmut, gor. inzh.;  
KUUSIK, Jaan, gor. inzh.; JÄÄME, Guido, gor. inzh.,  
retsenzent; VIIILUP, Väino, gor. inzh., retsenzent;  
REHEMÄA, H., red.; PEDARI, J., tekhn.red.

[Mining engineering] Kaevuritööd. Tallinn, Eesti Riiklik  
Kirjastus, 1963. 393 p. (MIRA 16:12)  
(Mining engineering)

KUUSKLA, Ye.

DAIRY CATTLE

Increasing the milk yield of cows on the Zhdanov Collective Farm. Sov. zdrav. 14  
No. 3, 1952.

Monthly List of Russian Acquisitions, Library of Congress, November 1952. UNCLASSIFIED.

KUUSK, M., aspirant

Why motor vehicles operating on an hourly basis are badly utilized. Avt.transp. 40 no.12:27-28 D '62. (MIRA 15:12)

1. Tartuskiy gosudarstvennyy universitet.  
(Transportation, Automotive)

KUUSMAE, J.

"Mechanized production of peat for stable litter on the Rahno'a State Farm."

p. 514 (Sotsialistlik Põllumajandus) Vol. 12, no. 11, Nov. 1957  
Tallinn, Estonia

SC: Monthly Index of East European Accessions (EFAI) I<sup>1</sup>, Vol. 7, no. 4,  
April 1958

L 28336-66 EWT(1)/EWT(m)/ETC(f)/ENG(m)/T/EWP(e)/EWP(t)/ETI IJP(c) CG/AT/WH/  
ACC NR: AP6013075 JD/JG SOURCE CODE: UR/0048/66/030/004/0664/0667  
*86*  
*44*  
*B*

AUTHOR: Trofimova (Eksina), T.I.; Kuusman, I.L.

ORG: Institute of Physics and Astronomy, EstSSR (Institut fiziki i astronomii,  
EstSSR)

TITLE: Recombination luminescence of activated ionic crystals under stimulation with  
slow electrons /Report, Fourteenth Conference on Luminescence held in Riga 16-23  
September 1965/ *Z/*

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 664-667

TOPIC TAGS: crystal phosphor, recombination luminescence, cathodoluminescence,  
alkali halide, scintillator, ionic crystal, electron, electron hole, electron  
energy, iodide, alkali, radiation effect

ABSTRACT: From the standpoint of investigation of the elemental stages of cathodo-  
luminescence - a form of luminescence in which a predominant role is played by  
electron-induced excitations of the crystal lattice - the interesting range of  
electron energies extends from 1 to 10 000 eV. In view of this there has been under-  
taken at Tartu (Institute of Physics and Astronomy of the Estonian SSR Academy of  
Sciences) a comprehensive program of investigations of the luminescence of ionic  
crystals stimulated by 20 to 5000 eV electrons. The present study, which is part of  
this program, was concerned with the kinetics of the luminescence of alkali iodides.

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ACC NR: AP6013075

in a wide temperature range (approximately 120 to 500°K) with a view to determining the relative roles of the exciton and electron-hole mechanisms and elucidating the nature of the elementary processes involved in the mechanism of radiation effects. Monoenergetic (within 1-2 eV) electron beams were obtained by conventional techniques for the 1000 to 5000 eV range and by means of special guns (A.R.Shul'man and S.A. Fridrikhov, Fizika Shchelochnogaloidnykh kristallov, p. 263, Izd. Latv. un-ta, Riga, 1962) for the 100 to 1000 eV range. The specimens were thallium activated KI, RbI and CsI crystals. The luminescence of the crystals consists of a short-duration ( $< 10^{-6}$  sec) component (associated primarily with the exciton mechanism and possibly with a fast electron-hole energy transfer mechanism in the case of CsI:Tl) and a persistent ( $> 10^{-6}$  sec) component (electron-hole emission). A figure gives the temperature dependences of the total luminescence and of the brief and persistent components, together with the glow curves for RbI:Tl. These curves are discussed and analyzed. The authors also investigated the cathodoexcitation functions: variation of the luminescence intensity with the incident electron energy (at a constant beam current). The data are presented in graphic form. The increasing energy curve diverges somewhat from the decreasing energy curve; this is attributed to experimental factors (charge build-up and variation of the vacuum). In addition the authors observed scintillation of KI:Tl and CsI:Tl under the action of single square 800 microsec pulses of 100 to 1000 eV electrons. The fact that scintillations were observed and the fact that NaCl:Tl and KCl:Tl yield thermostimulated luminescence after excitation with 20 eV electrons indicate that even such low electrons excite the mercury-

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ACC NR: APG013075

like ions in alkali halide phosphors with reasonable efficiency. The desirability  
of further studies is noted. In conclusion, the authors express their sincere grati-  
tude to Ch.B.Lushchik for guidance in the work. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 010/ OTH REF: 000

Card 3/3 NC

YEFIMOV, A.A.; KUUSPALU, T.I.

Anorthite gabbro of the Serebryanskyy Kamen' and the related  
copper mineralization. Dokl.AN SSSR 145 no.1:181-184 J1 '62.  
(MIRA 15:7)

1. Ural'skaya kompleksnaya s"yemochnaya ekspeditsiya, Sverdlovsk.  
Predstavleno akademikom D.S.Korzhinskim.  
(Ural Mountains--Gabbro) (Ural Mountains--Copper ores)

KHUTS, H.

How we achieve the first place in milk production in our district. p. 401

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Sanitarnych Ogrzewnictwa i Garownictwa) Warszawa, Poland  
Vol.13, no.9, Sept. 1958

Monthly list of East European Accession (EEAI) LC, Vol.9, no.2, Feb. 1960

Uncl.

5714, A.

Meting sən wintəl... , Vient, tən, 41 no.5.43 de '65. (MIRA 18-5)

1. Nachal'nik oddela morskoy prikotovki Moskovskogo gorskiakogo  
komiteta Vsesoyuznogo nepravil'nego obshchinstva podgryaztviya  
zemli, avtora i sparta 1977

KUZ, A., sud'ya respublikanskoy kategorii

Problems of the combined competition of sea sports. Voen.znan.  
39 no.10:33 0 '63. (MIRA 16:11)

1. Chlen prezidiuma Federatsii morskogo smogotvor'ya.

177, A.

Mass participation for sports competitions! Year. June 41  
no.944 S 165. (MIRA 18:10)

1. Chien prezidium Federativii narodov sovetskogo SSR.

BELYAKOV, N., sud'ya vsesoyuznyy kategorii; KULIK, A., sud'ya mezh. Linnitskoy kategorii.

Sports competitions: results and conclusions. Vses. znam. Al no.10:46 0 '65. (MIRA 18:10)

COLONIAL, a capital city of Upper Volta, located in the north central part of the country.

Testimony: **feminized symbols** in a total of nine poems -  
Mentally ill man. French, female, 20 years old. File # 164.  
(B.M.A. 1975)

1. **titans** (in the name of the poem, the author of which  
was a woman, she was a poet, prof. Tech. University)  
My dear.

KUUZ, R.A.

Headaches and facial pains in cervical osteochondrosis. Trudy  
1-go MII 24:121-126 '63 (MIR 17:3)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

1971-01-01 10:00:00 MDT Patient: KHOKH, R.A.,姓名: 哈库赫, 女性, 32岁, 160cm, 50kg

Central-superior insufficiency in cervical osteochondrosis.  
(MIRA 12 10)  
City 1-ge MM 38:160-168 '65.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

HUUS, I. A.

Dissertation: "Some Applications of Electrodynamics to Linear Derivatives in the Electron Theory." Cand. Phys.-Mat. Sci., Inst. of Physics and Mathematics, Acad. Sci. Estonian SSR, Tartu, 1954. Referativnyy zhurnal-fizika, No. 34, 1954.

DO: AM 24, 26 Nov 1954

24.6110

S/058/62/CCO/C07/C29/C68  
AC61/A101

AUTHOR: Kuuzik, I. Kh.

TITLE: Calculation of the electron-vibrational band of an anharmonic oscillator by taking account of the dependence of the electron-matrix element on the nuclear coordinate

PERIODICAL: Referativnyy zhurnal, Fizika, no. 7, 1962, 6 - 7, abstract 7V38  
("Tr. In-ta fiz. i astron. AN EstSSR", 1961, no. 17, 29 - 37;  
English summary)

TEXT: On the basis of papers by Lax and Sill (RZhFiz, 1962, 2V70), concerning the electron-vibrational band of an anharmonic oscillator, expressions are derived for the moments of probability distribution in second approximation. The calculation is performed by taking account of the linear dependence of the electron-matrix element on the nuclear coordinate.

VC

[Abstracter's note: Complete translation]

Card 1/1

RECORDED AND INDEXED BY: DIRECTORATE OF INTELLIGENCE R

SEARCHED: READING, ENGLAND, 1950, NO. 2022

MAILED: LOW TO REPORTER, LONDON, ENGLAND

PAGE: 2

TOPIC: Training Facilities in China with Special Reference to Education  
of Chinese Officers.

MAILER: MR. H. H. MORSE, NEW YORK, NY, USA, 1950

ABSTRACT: CHI: EXCLUDED FROM REPORT OF CHINA, ASSOCIATED WITH  
LAST REPORT. PICTURED KING OF CHINA EQUIPPED WITH 6 ml.  
OF THE ANTIBODIES, AND PLACED IN A BOX WHICH WAS RECEIVED  
BY MR. H. H. MORSE, NEW YORK, NY, USA.

CLASSIFICATION: U//C

20

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

KVARN, B. A.

Worker with machine parts and fundamentals of materials v., serer. i doz. trn. Moscow,  
Gos. in-t vo sellezhe. lit-ry, 1952. 412 s. mechanizm i sredstva upravleniya sovremennoj  
sistemam upravlenija padrov massovoj kvalifikacii (4-kv-2).

10146.4.8 1 32

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

KUVAKIN, D.A., kandidat tekhnicheskikh nauk.

[Mechanic's work with fundamentals of a knowledge materials]  
Slesarnoe delo o osnovami materialovedeniia. 10 izd. Moskva,  
Gos. izd-vo sel'khoz. lit-ry, 1953. 319 p. (Uchebniki i ucheb-  
nye posobiia dlia podgotovki sel'skokhozinstvennykh kadrov  
massovoi kvalifikatsii.) (MLRA 7:3)  
(Materials) (Machine-shop practice)

KUVAKIN, D.A., kandidat tekhnicheskikh nauk; LETNEV, B.Ya., redaktor;  
PETRUSHKO, Ye.I., tekhnicheskiy redaktor

[Machine shop practice and materials] Slesarnoe delo s osnovami  
materialovedeniia. Moskva, Gos. izd-vo selkhoz. lit-ry, 1954.  
422 p. (MLRA 7:10)  
(Machine-shop practice)

KUVAKIN, D. A.

1

"Surface Hardening of Steel Castings." From the book, "Heat Treatment and Properties of Cast Steel." edited by N. S. Kreshchanovskiy, Mashgiz, Moscow 1955.

05879

SOV/78-4-11-32/5C

5(2)

AUTHORS: Kuvakin, M. A., Kusakin, P. S.

TITLE: Investigation of the System NaF - AlF<sub>3</sub> - NaClPERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,  
pp 2577 - 2581 (USSR)

ABSTRACT: In investigating this system, it was taken into account that an addition of NaCl could lower the melting point of the bath used for the electrolytic production of aluminum. The melting diagrams were recorded by means of N. S. Kurnakov's pyrometer. The binary systems are described at first. NaF - AlF<sub>3</sub>: here, the publication data (Refs 2-4) are confirmed in general. The melting temperature of cryolite was determined to be 1008°. The compound NaF·AlF<sub>3</sub>, determined by M. Hordion (Ref 4) could not be confirmed. Solid solutions did not appear. NaF - NaCl: slight corrections to the diagram given by Plato (Ref 5) are given. NaCl - AlF<sub>3</sub>: was first investigated by the authors up to a content of 60% AlF<sub>3</sub> (Fig 1, Table 1). The mixture with 68% NaCl has the lowest melting temperature (714°). A complete investigation of this system was not possible because of the volatility of AlF<sub>3</sub> and the reaction 3NaCl + AlF<sub>3</sub> ⇌ AlCl<sub>3</sub> + 3NaF.

Card 1/2

Investigation of the System NaF - AlF<sub>3</sub> - NaCl

05879  
SCV/76-4-11-32/50

The phase diagram of the ternary system was drawn by means of 12 sections (Table 2, Figs 2-5). It is represented in figure 6 as a projection on the composition triangle. The isothermal lines of the primary crystallization are entered. The addition of NaCl lowers the melting temperature of a mixture consisting of NaF and AlF<sub>3</sub>. Chemical compounds do not appear in this system; solid solutions do not develop either. There are 6 figures, 2 tables, and 5 references, 3 of which are Soviet.

ASSOCIATION: Ural'skiy filial Akademii nauk SSSR (Ural Branch of the Academy of Sciences, USSR)

SUBMITTED: July 21, 1958

Card 2/2

KUVAKIN, N. A., Cand Tech Sci -- (disc) "Research into some physico-chemical properties of melts of the system -- sodium fluoride-aluminum-fluoride-sodium chloride." Sverdlovsk, 1960. 14 pp; with charts; (Ural'skiy Affiliate of the Academy of Sciences USSR, Inst of Metallurgy); 150 copies; free; (KL, 21-60, 12-)

KUVAKIN, M.A.; KUSAKIN, P.S.

Electric conductivity of melts of the system  $Mg_2AlF_6$  -  $MgCl_2$ .  
Trudy Inst.met.UFAN SSSR no.5:145-147 '60. (MIRA 13:8)  
(Aluminum--Electrometallurgy)  
(Liquid metals--Electric properties)

KUVAKIN, M.A.

Investigating the crystallization surface of the system  $\text{NaF} - \text{AlF}_3 - \text{BaCl}_2$ . Zhur.neorg.khim. 6 no.12:2741-2748 D '61. (MIRA 14:12)  
(Systems (Chemistry)) (Crystallization)

KUVAKIN, M.A.

Testing an anode mixture of pitch and sulfurous petroleum cracking cokes. TSvet. met. 35 no.5:56-60 My '62. (MIRA 16:5)  
(Electrodes, Carbon)

KUVAKIN, M.A.

Effect of binder preparation on the quality of the anode mass.  
Tsvet.met. 35 no.8:48-49 Ag '62. (MIFA 15:8)  
(Binding materials) (Coal tar products)

KUVAKIN, M.A.

Effect of additives to the anodic mass of discarded hearth blocks  
on the properties of carbon anodes. TSvet. met. 36 no.7:86-87 Jl  
'63. (MIRA 16:8)

(Electrodes, Carbon)

OSHCHEPKOVA, N.V.; KUVAKIN, M.A.; ZELENINA, V.V.

Microscopy of electrode materials. TSvet. met. 36 no.12:51-54 D '63.  
(MIRA 17:2)

KUVAKIN, M.A.; BOGOMOLOVA, N.D.

Investigating pitch coal coke as raw material for the manufacture of  
electrodes. Tsvet. met. 37 no.9(70-71) 6 164. (MIRA 18:7)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

KUVAKIN, V.F., inzhener.

Improving terminal cable sleeves of an outdoor installation.

Elek.sta. 25 no.3:38-41 Mr '54.

(Electric cables)

(MLRA 7:6)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

VASIL'YEV, N.S.; KASIMOV, V.I.; KALININ, G.A.; KUVAKIN, V.P.; MEDVEDEV, A.P.;  
FAYVILEVICH, Ya.A.; KHRIPUNOV, V.P.; YEREMAKOV, D.A., redaktor;  
HEMOV, A.P., redaktor; OSTROVSKIY, Ya.M., redaktor; RAKL'SKAYA, D.D.,  
redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Experience in operating the Kashira Hydroelectric Power Station]  
Opyt eksploatatsii Kashirskoi GRES. Moskva, Gos. energ. izd-vo,  
1956. 179 p. (MIRA 9:9)  
(Kashira Hydroelectric Power Station)

1. KUVALDIN, A.
2. USSR (600)
4. Photography, Stereoscopic
7. Observations of natural conditions by means of sterophotography. Mor. flot, 12, No. 12, 1952
  
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

PONOMAREV, A., general-; polkovnik inzhenerno-tehnicheskoy sluzhby;  
POKROVSKIY, G., prof., doktor tekhnicheskoy sluzhby;  
KUVAL'DIN, A., dots., kand. tekhnicheskikh nauk inzhener-polkovnik; MOSTOVENKO, V., dots., kand. tekhnicheskikh nauk inzhener-polkovnik; GONCHAROV, M., polkovnik; TAIANTSOV, A., polkovnik; VASIL'YEV, N., polkovnik; GORDEYEV, N., kapitan 1 ranga; KOZIN, K., kapitan 1 ranga; ARKHIPOV, M., dots., kand. tekhn. nauk inzhener-podpolkovnik; SEDOV, A., dots., kand. tekhn. nauk, inzhener-podpolkovnik; MELIK-PASHAYEV, N., dots., kand. tekhn. nauk, inzhener-podpolkovnik; TIKHOMIROV, Yu., dots., kand. tekhn. nauk, inzhener-podpolkovnik; PARFENOV, V., kand. tekhn. nauk, inzhener-podpolkovnik; GEORGIYEV, A., inzh.-podpolkovnik; KRUCHININ, V., inzh.-podpolkovnik; MEKONOSHIN, N., inzh.-podpolkovnik; RYKOV, S., inzh.-podpolkovnik; SURIKOV, B., inzh.-podpolkovnik; ZHUKOV, V., inzh.-mayor; NOVIKOV, M., inzh.-mayor; SUSHKOV, Yu., inzh.-kapitan; ASTASHENKOV, P.T., inzh.-podpolkovnik; VASIL'YEV, A.A., red.; KARYAKINA, M.S., tekhn. red.

[New advances in military technology for youthful readers] Mo-lodezhi o novom v voennoi tekhnike. Moskva, Izd-vo DOSAAF, 1961. 342 p. (MIRA 15:2)

(Rockets (Ordnance)) (Atomic weapons)  
(Electronics in military engineering)

FIKEMAN, Boris Yakovlevich; KUVALDIN, A.B., red.

[Ignitron contactors and heating regulators] Ignitronnye  
kontaktory i regulatory nagreva. Moskva, Energiia, 1964.  
79 p. (Biblioteka elektrotermista, no.19)

(PLA 18:4)

L 00144-67 ENT(m)/EWP(t)/ETI IJP(c) JD/JG  
ACC NR: AK6027496 SOURCE CODE: UR/0137/66/000/004/B015/B015

AUTHOR: Smolyanskiy, M. Ya.; Zolotov, B. V.; Tsishevskiy, V. P.; Zhigalko, Ye. K.;  
Kuvaldin, A. B.

TITLE: Survey of work done by the "Electrothermal Installations" Department in the  
field of investigation and industrial application of the high-intensity electric arc

SOURCE: Ref. zh. Metallurgiya, Abs. 4B93

62  
61

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 46, 1965, 36-42

TOPIC TAGS: electric arc, metal purification, refractory metal

ABSTRACT: Research has been in progress since 1961 in the "Electrical Installations" Department of Moscow Power Engineering Institute on the working process in installations for arc-heating of gases together with development of methods for designing installations suitable for industrial application. Investigations of the arc-heating process are described for gases with axial stabilization of the arc in a cylindrical channel and data are given on the effect which the type of working medium has on the electrical and power characteristics of the process. An installation is developed for producing refractory metals from their compounds. This installation was used for conducting experiments on carbothermic reduction of niobium in a plasma jet. Raw material in the form of niobium pentoxide and carbide pressed into a billet 6-8 mm in diameter

Card 1/2

UDC: 669:621.365.6:533:9

L 09144-67

ACC NR: AR6027496

was fed by the mechanism into a plasma jet at a rate of 2-4 cm/min. The carbon concentration in the reaction products was from 0.38 to 1.1% with a reduction to 0.14% after the second remelting, which shows that metallic Nb and Ta may be produced in ingots. 9 illustrations, bibliography of 11 titles. V. Pryanikova. [Translation of abstract]

SUB CODE: 11

Card 2/2 nat

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

EROSHENKOV, Yakov Il'itch; SHVYD'KIN, A. S., red.

[Low-frequency converter systems] Preobrazovatel'nye  
ustroystva nizkoi chastoty. Moskva, Energiia, 1965, 61 p.  
(siblioteka elektronomista, no.22) (MIRA 18;7)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

L 35552-55 FWT(m)/EWG(w)/EWG(f)/EWG(v)/EPR/T-2/EPG(k)/EPA(bb)-2 Pg-4 EM  
ACCESSION NR: AP5008151 S/0286/65/000/005/0029/0030

AUTHORS: Chernyy, V. Ya.; Kuvaldin, A. I.

TITLE: Strengthening the vanes of turbines. Class 14, No. 168728

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 5, 1965, 29-30

TOPIC TAGS: turbine vane, turbomachine

ABSTRACT: This Author Certificate presents a method of strengthening turbine vanes by means of shafts placed in slots of the disk (see Fig. 1 on the Enclosure). To simplify construction, the shafts and the disk are equipped with rectangular notches in which rectangular heads of the lateral rings, rigidly connected to the disk, are inserted. The lateral connecting rings are made in sections. Orig. art. has: 1 figure.

ASSOCIATION: Kirovskiy mashinostroitel'nyy i metallurgicheskiy zavod (Kirov Machine Design and Metallurgical Plant)

SUBMITTED: 08Jan64

ENCL: 01

SUB CODE: FR, IE

NO REF SOV: 000

OTHER: 000

Card 1/2

5 02101-65 EFT(c)/EWT(m)/EMP(j)/T Pe-4/Pr-4 RM

ACCESSION NR: AP5015271

UR/0286/65/000/009/0051/0051

AUTHORS: Arkin, Ye.-S. A.; Chernyy, V. Ya.; Vnukovskiy, Ye. T.; Sorokin, N. A.; Kuvaldin, A. I.; Saryneva, E. G.; Rybakov, G. V.; Vasilevskiy, P. F.; Stolyarin, A. B.; Pautov, A. V.

TITLE: A turbomolecular high-vacuum pump. Class 27, No. 170609

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 51

TOPIC TAGS: vacuum pump, turbomolecular vacuum pump

ABSTRACT: This Author Certificate presents a turbomolecular vacuum pump with a 2-stream rotor and an electric drive mounted in the fore-vacuum chamber (see Fig. 1 on the Enclosure). To increase its reliability, efficiency, and the power coefficient, the electric drive consists of two auxiliary high-frequency electric motors of equal power, mounted on the shaft brackets. These motors may be switched in to work together in accelerating the shaft up to its full rpm in a desired period of time, whereupon one of them is disconnected. To strengthen the insulation and to diminish the gas separation, the winding and the core of the electric motor stators are coated with an epoxy resin with a filler of low vapor tension. To diminish the vibrations and to increase the reliability of bearing supports, the latter are

Card 1/8

KUVALDIN, B.I.

Kuvaldin, B.I. "An account of the effect of joints in the construction of railroad cars," Trudy Sib. lesotekhn. in-ta symposium 5, Issue 3, 1948, p. 3-8 - Bibliog: 7 Items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

Washington, D. C.

Washington, D. C. - "Institute's capacity of research and development," says Dr. J. C. Gammie,  
Institute, Population C, Room 1, T-4, 1960.

SD: U-4315, 14 August 53, (Intopic Editorial Highlights), No. 14, 1953.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

RECORDED, 4. 1.

Friedman, L. J., "On the development of memory in man," *Psychol. Rev.*, 1964, 71, 1-20.

See also, *Information, Inc.*, 1964, 12, 12-14.

See: *U-4038*, 14 August 63, (Intelligence Journal, United States, U. S., 1963)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

IEVANIN, L. I.

Lumber-transportation

Fast developments in the overland transporation of lumber in Russia. L.s. prot. 12 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August, 1952 ~~1953~~. Unclassified.

MOROZOV, Sergey Aleksandrovich; KUVALDIN, B.I., red.; GORYUNOVA, L.K.,  
red.izd-va; PARAKHINA, N.L., tekhn.red.

[Building stabilized earth roads for logging trucks] Stroitel'stvo  
lesovoznykh avtomobil'nykh dorog iz stabilizirovannogo grunta.  
Moskva, Goslesbumizdat, 1960. 199 p. (MIRA 14:6)  
(Road construction)

KUVAL'DIN, Boris Ivanovich, dots.; MOROZOV, Sergey Aleksandrovich,  
dots.; SHALAYEV, S.A., inzh., retsenzent; KORCHUNOV , N.G.,  
prof., retsenzent; KUKLINOV, B.A., dots., retsenzent;  
MEN'SHUTKIN, Ya.G., dots., retsenzent; SYROMYATNIKOV, S.A.,  
dots., red.; PITERMAN, Ye.L., red.izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Planning logging truck roads] Proektirovaniye lesovoznykh  
avtomobil'nykh dorog. Moskva, Goslesbumizdat, 1962. 331 p.  
(MIRA 16:7)

(Forest roads)

STEPANOV, D.; RODINOV, Ya. A.; KUVALDIN, B. I., inzh. (Moskva);  
VAL'KOV, A. S., inzh. (Moskva); LAGOYSKIY, A. I., inzh. (Vil'nyus);  
LUZHENOVSKIY, A. G., inzh. (Moskva)

"Arrangement and maintenance of narrow-gauge railroad tracks"  
by G. E. Skorodumov, A. I. Smirnov, M. P. Smirnov. Reviewed by  
D. Stepanov and others. Put' i put. khoz. 6 no.8:45-46 '62.  
(MIRA 15:10)

1. Glavnyy inzh. Estonskoy dorogi, Tallin (for Stepanov).
2. Nachal'nik sluzhby puti Estonskoy dorogi, Tallin (for Rodinov).

(Railroads, Narrow-gauge—Track)  
(Skorodumov, G. E.) (Smirnov, A. I.)  
(Smirnov, M. P.)

KUVALDEK, Boris Ivanovich, kand. tekhn. nauk; SMIRNOV, A.I.,  
red.; MYAKUSHKO, V.P., red.izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Using welded long-length rails in narrow-gauge logging  
railroads] Primenenie svarynykh dlinnomernykh rel'sov na  
lesovoznykh uzkokoleinykh zheleznykh dorogakh. Moscow,  
Goslesbumizdat, 1963. 112 p. (MIRA 17:4)

POPOV, Dmitriy Aleksandrovich prof. [deceased]; KORCHUNOV, Nikolay Grigor'yevich prof.; KUKLINOV, Boris Alekseyevich, dots.; MENSHTIKIN, Yakov Grigor'yevich, dots.; KUVALLIN, Boris Ivanovich, dots.; ALYSHEV, Ivan Fedorovich, dots.; SHCHELKUNOV, Valentin Vasil'yevich, dots.; NIKOL'SKIY, Boris Vasil'yevich, dots.; KORUNOV, M.M., prof., retsenzent; DOROKHOV, B.A., red.

[Land transportation of lumber] Sukhoputnyi transport lesa. [By] D.A.Popov i dr. Moskva, Goslesbumizdat, 1963. 863 p.  
(MIRA 17:5)

KUVALDIN, B.I., kand.tekhn.nauk

Laying of switch assemblies on logging railroads. Put' put.khoz.  
8 no.2:10-11 '64. (MIRA 17:3)

— KIVALLIN, Boris Ivanovich; SHCHELKUNOV, Valentin Vasil'yevich;  
Sots, retinents; KERZHNIK, A.G., prof., rektor;  
LAKHIN, R.F., assi, tekhn. rukov. SV, SVI.

[Rolling stock of logging trains] Izmerenie sotrovoy jekke  
voznykh doreg. M. PVA, Drevnia perevadit. 1971, No. 3.  
312 p. (MFA 1971)

GARUZOV, Vikentiy Ivanovich; KUVALDIN, B.I., red.

[Economic bases of lumber transportation] Ekonomicheskie osnovy transporta lesa. Moskva, Lesnaya promyshlennost', 1965. 297 p. (MIRA 18:8)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

SLYUSARENKO, V.A., red.; KRUPENCHIK, B.B., red.; MELESHKIN, M.T.,  
red.; VIROV, Ye.M., red.; KUVALDIN, D.A., red.;  
VITVITSKIY, M., red.izd-va; SYCHEVSKIY, I., red. izd-va;  
NEDOVIZ, S., tekhn. red.

[First Soviet firms; from the work practice of the production combines of the Lvov Economic Council] Pervye sovetskies firmy; iz opyta raboty proizvodstvennykh ob"edinenii L'vovskogo sovnarkhoza. L'viv, Knizhkovozhurnal'ne vyd-vo, 1962. 113 p. (MIRA 16:4)

1. Sekretar' L'vovskogo oblastnogo komiteta Kommunisticheskoy partiyy Ukrayiny (for Slyusarenko). 2. Zaveduyushchiy promyslennym otdelom oblastnogo komiteta Kommunisticheskoy partii Ukrayiny (for Krupenchik) 4. Nachal'nik proizvodstvenno-tehnicheskogo upravleniya L'vovskogo sovnarkhoza (for Meleshkin)

(Lvov Economic Region--Business enterprises)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9

KUVALDIN, E., inzh. (Usab) (Leningrad)

Transistorized ultrashort wave converter for operation on 144-146 mc.  
Radio no. 1:18-19 Ja '65. (MIRA 18:4)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930002-9"

L 07040-67 E.O.(1)/ECC(k) 2/EWP(k) IJ(c) 12/64  
ACC NR: AR6027128 (A) SOURCE CODE: UR/0311/66/006/006/0022/0024

AUTHOR: Vol'kenashcyn, A. A. (Candidate of technical sciences); Yefremov, V. P. (Engineer); Kuvaldin, E. V. (Engineer); Matveyeva, O. K. (Engineer); Sazonov, V. M. (Engineer)

ORG: None

TITLE: Photometric equipment for pulsed light sources

SOURCE: Svetotekhnika, no. 6, 1966, 22-24

TOPIC TAGS: photometer, light pulse, laser pulsation, flash lamp

ABSTRACT: A unit for photometric measurement of pulsed light sources is described. This unit consists of three instruments: an FIL photometer for flash lamps, an FML-m photometer for lasers and a KOG standard light pulse generator. The FIL photometer may be used for measuring nearly all types of industrial flash tubes and the FML-m is used for measuring the radiation from free-emission lasers. The KOG instrument generates reproducible standard light pulses and is used for calibration of the two photometers. Photographs of each of the component instruments are given together with brief descriptions. The flash tube photometer may be used for measuring the luminous intensity of a light source with a maximum transverse dimension of 110 mm. The fundamental scale of the instrument has graduations of 100 candles/div,  $10^5$  nits/div and

Card 1/2

UDC: 535.242.2

L 07949-67

ACC NR: AP6027128

*5*  
 $10^{-3}$  ca·sec/div. These graduations may be expanded by five orders of magnitude for measuring higher intensities by changing the resistance of the load on the photocell or by using neutral light filters. The time characteristics of the instrument are: least resolved duration of the leading front --  $5 \cdot 10^{-7}$  sec, pulse duration -- no more than  $10^{-2}$  sec. The approximate value of a graduation on the FML-m photometer is  $10^{-8}$  w and  $10^{-4}$  joules per unit of the reference scale. The upper limits of measurement are  $10^8$  w and  $10^3$  joules. The unit may be used for laser measurements in the 400-1100  $\mu\text{m}$  spectral region. The time resolution of the photocell is a few tenths of a microsecond. The KOS instrument generates pulses with a duration of approximately 3  $\mu\text{sec}$  and a luminous intensity of 200,000 ca. The authors consider it their pleasant duty to mention the considerable part played by N. F. Shipul', L. I. Mel'nikova, R. V. Tsyvkin, V. M. Shpan'koy and V. N. Kornilov in development of this photometric equipment. Orig. art. has: 3 figures.

SUB CODE: 13, 20/ SUBM DATE: None/ ORIG REF: 005

Card 2/2 1/

S/120/63/000/001/021/072  
E140/E135

AUTHOR: Kuvaldin, E.V.

TITLE: Electronic impulse indicator

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1963, 95-98

TEXT: This is an instrument intended for measuring the light characteristics of pulsed tubes. It consists of threshold circuits such that if the characteristics fall within preset limits an indication will be obtained. The peak light intensity and the duration above a certain level can be measured. A neon indicator is extinguished if the preset level is exceeded.  
There are 5 figures.

ASSOCIATION: Gosudarstvennyy opticheskiy institut  
(State Optical Institute)

SUBMITTED: April 5, 1962

Card 1/1

ACCESSION NR: AP4033135

S/0120/64/000/002/0141/0145

AUTHOR: Kuvaldin, E. V.

TITLE: Digital pulse photometer

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1964, 141-145

TOPIC TAGS: photometer, digital photometer, pulse photometer, digital pulse photometer, pulsed light measurement, laser

ABSTRACT: The development of two versions of a new digital pulse photometer is reported. The first is intended to measure the maximum and (time) integral values of luminous intensity, luminance, and illumination produced by pulsed light sources. The second is intended to measure the energy and maximum power of generators of stimulated radiation in the 0.3-1.1-micron band. Both versions have the same electronic measuring unit, which is specifically described in the article. The measuring unit converts the incoming pulse or pulse train

1/2

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ACCESSION NR: AP4033135

into an exponentially decaying voltage with a time constant of 10 millisec. The peak value of this voltage is measured by a digital voltmeter. The current pulse in the phototube circuit follows the shape of the luminous signal; this electric pulse can be applied to either an integrating circuit or a pulse expander where the peak value of the voltage is stored in a memory. Pulses of a duration up to 1 millisec can be measured. The photometer resolution is  $10^{-7}$  sec; its relative error is  $\pm 3\%$  or lower. A simplified circuit diagram is given, and a calibration method is indicated. Orig. art. has: 4 figures.

ASSOCIATION: Gosudarstvennyy opticheskiy institut (State Optical Institute)

SUBMITTED: 27May63 DATE ACQ: 11May64 ENCL: 00

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VOL'FSONCHTEYN, A.A., kand.tekhn.nauk. Relyashen, ...V. ...n.s.

Photometric evaluation of directed light impulses. Sovtekhnika  
10 no.2:15-17 F '64. (MIR 17:4)

1. Gosudarstvennyy opticheskiy institut.

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KIVAILIN, ivan ivanovich...

My working experience on the b-177 tractor earth mover Kivailin, Ivanov, 121 .17 p. (Joint  
stakhanovite or shnikov, 14-16%)

IA 725.6

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CIA-RDP86-00513R000927930002-9"

ANTONYUK, B.N.; DENEYUK, I.P.; KUROV, Yu.P.; VAYNBERG, S.I.; BUBLIKOV, V.A.;  
VEYTSMAN, M.B.; IVANOV, A.A.; IVANOV, L.S.; GIVEVSKY, B.I.; KOZEL'TSEV,  
L.K.; KOZEL'TSEV, L.I.; KURAL'DIN, D.G.; MIRZUM, A.I.; MIKHAEL'YEV, Ye.;  
ZUBKOVSKIY, B.P.; IZYUMOV, B.N.; POGONSTEYN, V.I.; KONSTANTINOV, V.P.;  
BUBLIKOV, A.V.; DZHANASHIYA, V.A.

Patents. Bum. i der. prem. n. 1:53-54 Ja № 105.

(MIRA 18:10)

S/169/62/000/009/070/120  
D228/D307

AUTHORS: Meyer, V. A. and Kuvaldin, V. A.

TITLE: Portable automatic equipment for semiconductor magnetic logging

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 52, abstract 9A342 (In collection: Vopr. rudn. geofiz., no. 2, M., Gosgeoltekhnizdat, 1961, 10-14)

TEXT: Portable automatic semiconductor magnetic logging equipment, developed at Leningradskiy universitet (Leningrad University), is briefly described together with its circuit principle. The equipment is designed for the use of standard logging recorders 3C-42, (ES-42), CK-1 (SK-1), and CK-100 (SK-100), which are available in many batches (with M-10 (M-10), ASG-26 (ASG-26) and KPT (KRT) outfit). It is intended for work on iron ore deposits and provides for the localization and differentiation of different ore types on the basis of their susceptibility measurements. The equipment's low weight (~20 kg with power supply sources and recorders) allows

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Portable automatic equipment ...

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it to be used in operations in almost inaccessible areas. The small dimensions of the logging tool make the equipment perspective for small-diameter borehole investigations. The equipment's complement consists of a logging tool, 50 mm in diameter and 1.5 m long, and an SK-100 recorder. Dry cell batteries (of the type 1L(2S) or 3S) or small size-storage batteries (4K1-10 (NKN-10)) with a voltage of 12 - 15 v. can be used as the power supply source. The current required does not exceed 45 - 50 mA. The susceptibility measurement range is from  $100 \times 10^{-6}$  (per 1 mm of chart tape) to 0.5 units CGSM (it is broken into three subranges). A measuring bridge with a pickup in the form of an inductance coil, a 500 c/s generator, and a matching cascade (emitter repeater) are inserted in the tool. A two-cascade amplifier and a rectifier are assembled inside the recorder. The magnetic logging apparatus is designed for the use of three- and one-core cable. Analysis of diagrams, obtained in boreholes of the Gostishchevskiy and the Yakovlevskiy Deposits, shows that the semiconductor equipment, at its existing sensitivity, allows all commercially interesting varieties of martite-hema-

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